

Experiments & Actions in the context of STEM club

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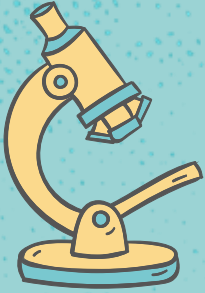
Introduction

At the first meetings of our club we started watching specific videos, doing research on and experimenting with every field we were introduced to, each time. A few meetings after, we began conducting interesting experiments on the first subject we chose to study: "Plastics and food".

Πρότυπο Γενικό Λύκειο Ηρακλείου Κρήτης STEM club



Experiments



1st

Surface tension

2nd

Testing the hydrophobic properties of leaves



3rd

H_2O_2 (Hydrogen Peroxide)



4th

Styrofoam solubility
(the effect of acetone
on styrofoam)

5th

Thermal insulation
of materials

6th

Bioplastic
production from
milk and vinegar

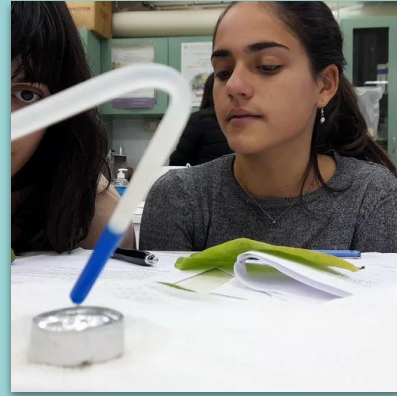


1st experiment: Surface tension

Floating paper clip:



water drops in a candle can:



2nd experiment: Testing the hydrophobic properties of leaves



3rd experiment: H_2O_2 (Hydrogen Peroxide)

Catalase in potatoes:

Factors influencing the activity of enzymes:



3rd experiment: H_2O_2 (Hydrogen Peroxide)

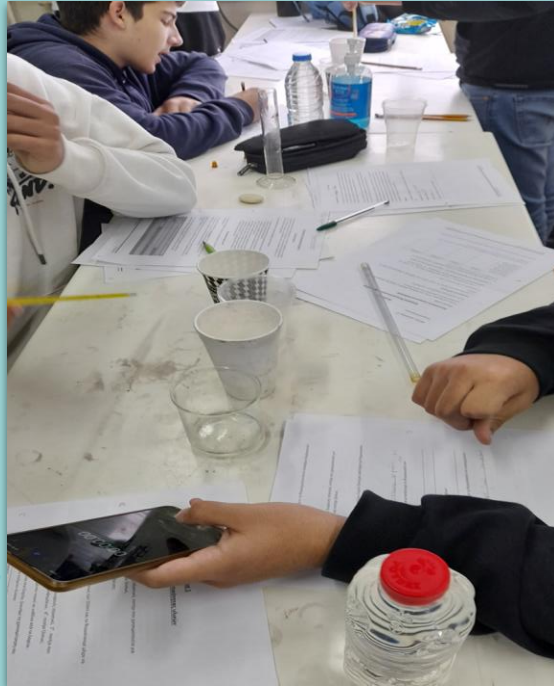
DIY rocket with "Depon"
(paracetamol):



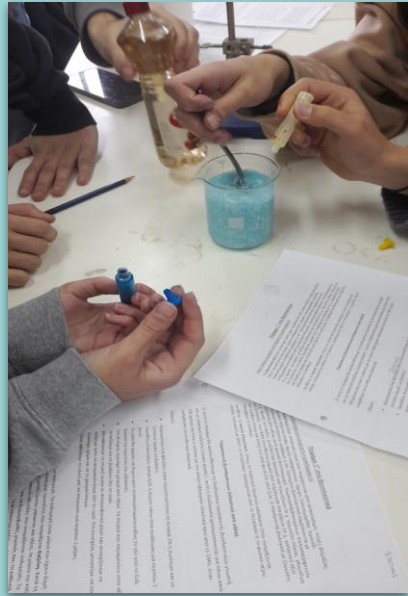
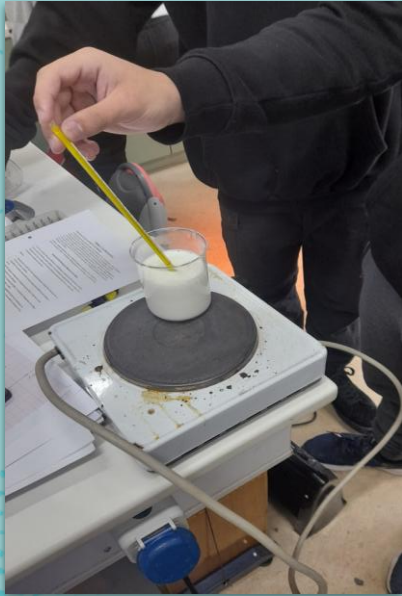
4th experiment: Styrofoam solubility
(the effect of acetone on styrofoam)



5th experiment: Thermal insulation of materials



6th experiment: Bioplastic production from milk and vinegar



Actions



our 1st visit:

Hellenic Mediterranean University
(HMU)



our 2nd visit:

Cretan university



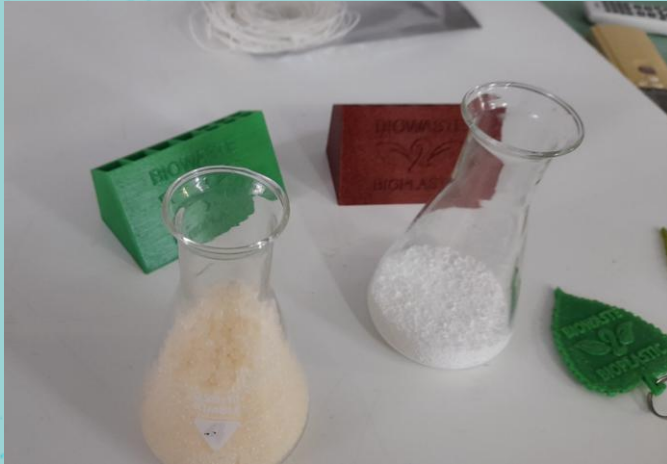
our 3rd visit:

Cretan Plastics (Plastika
Kritis)



Our 1st visit:

To a research group of the Hellenic Mediterranean University, that produces bioplastic from food waste



Our 2nd visit:

To the Material Technology Department of the Cretan University



our 3rd visit:

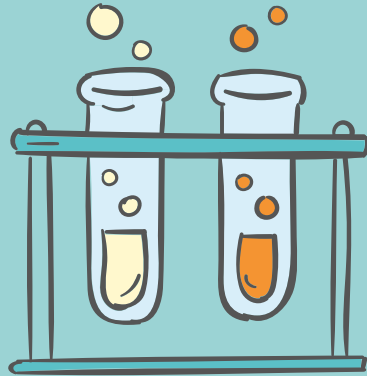
To the company "Crete Plastics" (a company that processes and shapes plastic)



Our Mission and vision

Mission

To comprehend
our world better
via science.



Vision

To try to find and
suggest solutions
on our world's
environmental
issues.

Thanks!

Do you have any questions?

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